

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/01
Date Received: 07/27/01
Project: Metro Self Monitor PO# M66540
Date Extracted: 08/08/01
Date Analyzed: 08/09/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M66540 107123-01	0.18	0.12	0.11	0.06
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 08/09/01

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Project: Metro Self Monitor PO# M66540

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 107123-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.18	0.18	0	0-20
Copper	mg/L (ppm)	0.12	0.12	0	0-20
Nickel	mg/L (ppm)	0.11	0.09	20	0-20
Zinc	mg/L (ppm)	0.06	<0.05	nm	0-20

Laboratory Code: 107023-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	0.18	101	95	80-120	6
Copper	mg/L (ppm)	5	0.12	99	94	80-120	5
Nickel	mg/L (ppm)	10	0.11	97	93	80-120	4
Zinc	mg/L (ppm)	5	0.06	96	93	80-120	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	50	100	99	80-120	1
Copper	mg/L (ppm)	50	100	100	80-120	0
Nickel	mg/L (ppm)	100	101	100	80-120	1
Zinc	mg/L (ppm)	50	100	99	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

107125

SAMPLE CHAIN OF CUSTODY

6MKJ7127101 BL1

AKC-000961

Send Report To Gerald A. Thompson
 Company Alaskan Copper Works
 Address 628 S. Hendon ST
 City, State, ZIP Seattle WA
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

METRO self monitor

PO #

m66540

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Chloroform				
m66540	01	7/26	12:30	H2O	1											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Gerald A. Thompson</u>	<u>ACW</u>	<u>7/26/01</u>	<u>1:20pm</u>
Received by: <u>[Signature]</u>	<u>Michael Erdahl</u>	<u>FAB</u>	<u>7/27/01</u>	<u>3:30pm</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 9, 2001

DUPLICATE COPY

INVOICE #01ACU0809-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor PO# M66540 - Results of testing requested by
Gerald A. Thompson for material submitted on July 27, 2001.

1 sample analyzed for Total Chromium, Copper,
Nickel, and Zinc by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID # (b) (6)

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August 9, 2001

Gerald A. Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

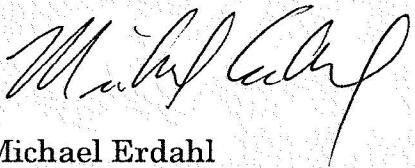
Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 2, 2001 from your Metro Self Monitor PO# M85925 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0809R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Charlene Morrow, M.S.
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Seattle, WA 98119-2029
TEL: (206) 285-8282
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e-mail: fbi@isomedia.com

August 9, 2001

Gerald A. Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 27, 2001 from your Metro Self Monitor PO# M66540 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0809R.DOC